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| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| L1 | 0 | image.clm. and encod\$3.clm. and data.clm. and binary.clm. and array.clm. and module\$2.clm. and pixel\$2.clm. and identical.clm. and printing.clm. and superimpos\$4.clm. and indicia.clm. | USPAT | OR | OFF | 2006/10/05 11:54 |
| L2 | 0 | image.clm. and encod\$3.clm. and data.clm. and binary.clm. and array.clm. and module\$2.clm. and pixel\$2.clm. and identical.clm. and printing.clm. and superimpos\$4.clm. and indicia.clm. | US-PGPUB; USPAT | OR | OFF | 2006/10/05 11:55 |
| L3 | 80 | image and encod\$3 and data and binary and array and module\$2 and pixel\$2 and identical and printing and superimpos\$4 and indicia | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/05 11:56 |
| L4 | 2890 | 713/176 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/05 11:56 |
| L5 | 4921 | 713/176 or 705/400 or 705/401 or 705/60 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/05 11:56 |
| L6 | 0 | 5 and 3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/05 11:56 |

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Best 200 shown

1 Fortran 8X draft

Loren P. Meissner

December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(21.36 MB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes programs expressed in the Fortran language. It consists of the specification of the language For specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is this standard. New features can b ...

2 High dynamic range imaging

Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.22 MB\)](#)Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the reasons why image acquisition, processing, and display techniques use no more than eight bits per color channel. Recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, allow images to represent the color gamut and dynamic range of the original scene rather than the limited range of the current monitor ...

3 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on guidelines for undergraduate degree programs in information systems IS '97**

Publisher: ACM Press

Full text available: [pdf\(7.24 MB\)](#)Additional Information: [full citation](#), [citations](#)**4 Compactly encoding unstructured inputs with differential compression**

Miklos Ajtai, Randal Burns, Ronald Fagin, Darrell D. E. Long, Larry Stockmeyer

May 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 3

Publisher: ACM Press

Full text available:  pdf(348.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The subject of this article is *differential compression*, the algorithmic task of finding common structure in data and using them to encode one version compactly by describing it as a set of changes from another. The goal of this work is to present new differencing algorithms that (i) operate at a fine granularity (the algorithm makes no assumptions about the format or alignment of input data), and (ii) in practice use linear time.

Keywords: Delta compression, differencing, differential compression

5 N-synchronous Kahn networks: a relaxed model of synchrony for real-time systems

 Albert Cohen, Marc Duranton, Christine Eisenbeis, Claire Pagetti, Florence Plateau, Marc Pouzet

January 2006 **ACM SIGPLAN Notices, Conference record of the 33rd ACM SIGPLAN-SIGART Principles of programming languages POPL '06**, Volume 41 Issue 1

Publisher: ACM Press

Full text available:  pdf(225.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of high-performance stream-processing systems is a fast growing domain, driven by real-time systems, TV, gaming, 3D animation and medical imaging. It is also a surprisingly demanding task, with regard to the complexity and conceptual simplicity of streaming applications. It needs the close cooperation between numerical and programming experts, real-time control experts and computer architects, and incurs a very high cost of development and optimization. ...

Keywords: correctness by construction, resource constraints, streaming applications, subtyping, type inference

6 Practical dictionary management for hardware data compression

 Suzanne Bunton, Gaetano Borriello

January 1992 **Communications of the ACM**, Volume 35 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.22 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Ziv-Lempel encoding, adaptive coding, content-addressable memory, file compression, hardware, textual substitution

7 Optical character recognition for typeset mathematics

 Benjamin P. Berman, Richard J. Fateman

August 1994 **Proceedings of the international symposium on Symbolic and algebraic computation**

Publisher: ACM Press

Full text available:  pdf(741.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is a wealth of mathematical knowledge that could be potentially very useful in many computer applications, but is not available in electronic form. This knowledge comes in the form of mechanically typeset books, which are more than a hundred years. Besides these older sources, there are a great many current publications containing mathematical information, which are difficult if not impossible to obtain in electronic form. What is needed is a way to extract ...

8 Computer Processing of Line-Drawing Images

 Herbert Freeman

March 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.18 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Programming languages for mobile code



Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(393.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sun's announcement of the programming language Java more than anything popularized the notion of programs traveling on a heterogeneous network and automatically executing upon arrival at the several classes of mobile code and extract their common characteristics, where security proves a concern. With these characteristics as reference points, we examine six representative languages for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile programming, object orientation, portability, safety, security, telescript

10 Color gamut mapping and the printing of digital color images



Maureen C. Stone, William B. Cowan, John C. Beatty

October 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Principles and techniques useful for calibrated color reproduction are defined. These results are based on the use of digital images designed on a variety of different color monitors and accurately reproduced on a variety of different color printers, including digital offset printing. Most of the images printed were reproduced without access to the image in its original form; the color specification was derived entirely from calorimetric specification. The techniques are specific ...

11 Representation of Three-Dimensional Digital Images



Sargur N. Srihari

December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.36 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Alan F. Sellen, and Matt Pharr
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(63.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful processor. The latest graphics architectures provide tremendous memory bandwidth and computation power, with fully programmable vertex and pixel processing units that support vector operations up to full 3D. High level languages have emerged for graphics hardware, making this computational power accessible. GPUs are highly parallel systems ...

13 The Quadtree and Related Hierarchical Data Structures



Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.87 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Three-dimensional medical imaging: algorithms and computer systems

 M. R. Stytz, G. Frieder, O. Frieder
December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(7.38 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging

15 A hierarchical data structure for multidimensional digital images

 Mann-May Yau, Sargur N. Srihari
July 1983 **Communications of the ACM**, Volume 26 Issue 7

Publisher: ACM Press

Full text available:  [pdf\(1.10 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

A tree data structure for representing multidimensional digital binary images is described. The recursive subdivision of the d-dimensional space into 2d hyperoctants. An algorithm for constructing a d-dimensional binary image from the trees of its (d - 1)-dimensional cross sections is given. The properties of the data structure and the algorithm are demonstrated both theoretically and in application to

Keywords: computed tomography, hyperoctree, multidimensional arrays, octree, quadtree, scene processing

16 Document image understanding

Sargur N. Srihari

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

17 Special issue on spatial database systems: Management of multidimensional discrete data

Peter Baumann

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Vol

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(2.30 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Spatial database management involves two main categories of data: vector and raster data. The former has received much in-depth investigation; the latter still lacks a sound framework. Current DBMSs either regard spatial data as sequences where the DBMS has no knowledge about the underlying semantics, or they do not consider the specificities of spatial data with respect to storage mechanisms suitable for huge arrays, or they are designed as specialized systems with limited functionality, but no ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

18 Object-based and image-based object representations

 Hanan Samet
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

An overview is presented of object-based and image-based representations of objects by their i representations are distinguished by the manner in which they can be used to answer two fund applications: (1) Feature query: given an object, determine its constituent cells (i.e., their locat query: given a cell (i.e., a location in space), determine the identity of the object (or objects) o well as the re ...

Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), im object space, octrees, pyramids, quadtrees, space-filling curves, spatial databases

19 [Capturing reality I: High performance imaging using large camera arrays](#)

 Bennett Wilburn, Neel Joshi, Vaibhav Vaish, Eino-Ville Talvala, Emilio Antunez, Adam Barth, Andrei Marc Levoy

July 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  pdf(902.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

The advent of inexpensive digital image sensors and the ability to create photographs that com number of sensed images are changing the way we think about photography. In this paper, we 100 custom video cameras that we have built, and we summarize our experiences using this ar applications. Our goal was to explore the capabilities of a system that would be inexpensive to this in mind, we used s ...

Keywords: camera arrays, spatiotemporal sampling, synthetic aperture

20 [Security and reliability: Using VMM-based sensors to monitor honeypots](#)

 Kurniadi Asrigo, Lionel Litty, David Lie

June 2006 **Proceedings of the 2nd international conference on Virtual execution enviro**

Publisher: ACM Press

Full text available:  pdf(232.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Virtual Machine Monitors (VMMs) are a common tool for implementing honeypots. In this paper implementation of a VMM-based intrusion detection and monitoring system for collecting inform honeypots. We document and evaluate three designs we have implemented on two open-source User-Mode Linux and Xen. Our results show that our designs give the monitor good visibility int small number of monitoring sensors can det ...

Keywords: IDS, honeypot monitoring, intrusion detection, virtual machine monitor

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| L1 | 2 | "6882442".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/05 10:17 |
| L2 | 2 | "6768807".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/05 10:21 |
| S1 | 2 | "20040190751".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/10/05 10:15 |
| S2 | 2 | "5946414".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 13:52 |
| S3 | 2 | "6359998".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 14:47 |
| S4 | 64 | watermark\$3 same (dimensional same "bar code") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 15:06 |
| S5 | 236 | watermark\$3 and (two\$1dimensional same (barcode or "bar code")) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 15:07 |
| S6 | 54 | watermark\$3 and (two\$1dimensional same (barcode or "bar code")) and ((spread near2 algorythm) or "spread spectrum") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 15:55 |
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| S11 | 75 | "382"/\$.ccls. and watermark\$3 and (two\$1dimensional same (barcode or "bar code")) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 16:46 |
| S12 | 2 | "6636615".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 16:55 |
| S13 | 0 | ("2004/0190751").URPN. | USPAT | OR | ON | 2005/05/16 16:55 |
| S14 | 44 | ("4443695" "5221833" "5245165" "5278400" "5315098" "5369261" "5619026" "5684885").PN. OR ("5946414").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/16 16:56 |

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| S18 | 148 | (split\$3 or divid\$3 or seprat\$3) near4 ((barcode or bar\$1code) or watermark\$3 or indicia) near4 (two or equal or half) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:19 |
| S19 | 16 | "382"/\$.ccls. and (split\$3 or divid\$3 or seprat\$3) near4 ((barcode or bar\$1code) or watermark\$3 or indicia) near4 (two or equal or half) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:21 |

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| S20 | 1 | "382"/\$.ccls. and (split\$3 or divid\$3 or separat\$3) near4 ((barcode or bar\$1code) or watermark\$3 or indicia) near4 ((two or equal or half) near4 (portion or part)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:22 |
| S21 | 1 | "382"/\$.ccls. and (split\$3 or divid\$3 or separat\$3) near4 ((barcode or bar\$1code) or watermark\$3 or indicia) near4 (upper near8 lower) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:27 |
| S22 | 604 | 713/176.ccls. and (watermark\$ or indicia) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:27 |
| S23 | 139 | 713/176.ccls. and (watermark\$ or indicia) and ("spread spectrum") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:28 |
| S24 | 126 | 713/176.ccls. and (watermark\$ or indicia) and ("spread spectrum") and (print\$4 or cop\$4 or photograph\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:29 |
| S25 | 35 | 713/176.ccls. and (watermark\$ or indicia) and ("spread spectrum") and (print\$4 or cop\$4 or photograph\$3) and two\$dimension\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/16 18:29 |
| S26 | 35 | 713/176.ccls. and (watermark\$ or indicia) and ("spread spectrum") and (print\$4 or cop\$4 or photograph\$3) and two\$1dimension\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/17 07:17 |
| S27 | 608 | ((split\$3 or divid\$3 or separat\$3 or put\$4) near6 (watermark or barcode or bar\$1code or indicia) near6 (parts or portions)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/17 07:19 |
| S28 | 13 | ((split\$3 or divid\$3 or separat\$3 or put\$4) near6 (watermark or barcode or bar\$1code or indicia) near6 ((equal) near3 (parts or portions))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/17 07:28 |
| S29 | 14 | ((split\$3 or divid\$3 or separat\$3 or put\$4) near6 (watermark or barcode or bar\$1code or indicia) near8 ((equal) near3 (parts or portions))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 07:48 |

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| S30 | 54 | ((watermark or barcode or bar\$1code or indicia) near8 ((equal) near3 (parts or portions))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/17 10:34 |
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| S33 | 2 | "6636615".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/27 15:48 |
| S34 | 2 | "6882442".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 07:51 |
| S35 | 2 | "5635694".pn..pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 07:56 |
| S36 | 2 | "5825892".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ . | ON | 2005/10/31 08:04 |

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| S39 | 2 | "6102592".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 08:37 |
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| S41 | 2 | "6332194".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 08:39 |
| S42 | 2 | "6359998".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 08:49 |
| S43 | 2 | "6415983".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 08:53 |
| S44 | 2 | "6611598".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 08:56 |
| S45 | 2 | "6636615".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 08:56 |
| S46 | 2 | "20010022848".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:01 |

EAST Search History

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| S47 | 2 | "20030028497".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:12 |
| S48 | 2 | "20040190751".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:14 |
| S49 | 793 | ((spread\$4 algorithm) or (spread spectrum)) same (watermark\$3 or (embed\$4 near4 (data or information or code))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:17 |
| S50 | 30 | ((spread\$4 algorithm) or (spread spectrum)) same (watermark\$3 or (embed\$4 near4 (data or information or code))) same (encrypt\$4 or encipher\$4 or cipher\$4 or scramb\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:21 |
| S51 | 31 | ((spread\$4 algorithm) or (spread spectrum)) same (Steganograph\$4 or watermark\$3 or (embed\$4 near4 (data or information or code))) same (encrypt\$4 or encipher\$4 or cipher\$4 or scramb\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:53 |
| S52 | 0 | spread.ti. adj spectrum and ("713"/\$.ccls. "380"/\$.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 09:54 |
| S53 | 186 | spread.ti. adj spectrum and ("713"/\$.ccls. "380"/\$.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:30 |
| S54 | 3 | spread.ti. adj spectrum and ("713"/\$.ccls. "380"/\$.ccls.) and non\$1overlap\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:32 |
| S55 | 1708 | (non\$1overlap\$4 near9 (spread\$4 or frequency)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:34 |

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| S56 | 14 | (non\$1overlap\$4 near9 (spread\$4 or frequency)) same (steganography or watermark\$4 or embed\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:52 |
| S57 | 1624 | (identical or similar) same (pixel) same (black or coloured) same white | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:54 |
| S58 | 13 | ((identical or similar) same (pixel) same (black or coloured) same white) same (watermark\$4 or steganography\$4 or embed\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:57 |
| S59 | 254 | ((pixel) same (black or coloured) same white) same (watermark\$4 or steganography\$4 or embed\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/31 10:57 |
| S60 | 900 | ((non\$1 overlap\$4) or (("un" or "no" or "not") near overlap\$4)) near9 pixel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 11:32 |
| S61 | 18 | ((non\$1 overlap\$4) or (("un" or "no" or "not") near overlap\$4)) near9 pixel same (black near5 white) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 11:34 |
| S62 | 2 | "6895118".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 13:56 |
| S63 | 27 | embed\$4 same frequency same non\$1overlap\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 14:45 |
| S64 | 2 | "20010022848".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/31 16:01 |
| S65 | 12 | noise encryption | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/11/01 08:17 |

EAST Search History

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| S66 | 2 | "6636615".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 15:43 |
| S67 | 2 | "5946414".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 15:44 |
| S68 | 2 | "20030028497".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 15:45 |
| S69 | 2 | "6201897".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 15:46 |
| S70 | 2 | "6201879".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 15:46 |
| S71 | 1 | "20040264735".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 15:59 |
| S72 | 2 | "6768807".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 16:00 |
| S73 | 2 | "6882442".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/03 16:00 |
| S74 | 0 | "5978475.pn" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 08:56 |
| S75 | 0 | "5978475.pn" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 08:57 |

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| S76 | 2 | "20020187925".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 08:56 |
| S77 | 2 | "20030187925".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 08:56 |
| S78 | 0 | "5978475.pn." | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 08:57 |
| S79 | 2 | "5978475".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 12:04 |
| S80 | 2 | "6571218".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 08:58 |
| S81 | 2 | "6571218".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/10/04 12:04 |